



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/765,231  
Source: OIPF  
Date Processed by STIC: 7/5/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/765,231

DATE: 07/05/2001  
 TIME: 11:35:21

Input Set : N:\paola\09765231.txt  
 Output Set: N:\CRF3\07032001\I765231.raw

Does Not Comply  
 Corrected Diskette Needed

2 <110> APPLICANT: Searle/Monsanto  
 3 Phippard, Deborah  
 4 Vasanthakamur, Geetha  
 5 Dotson, Stanton  
 6 Ma, Xiao-Jun  
 8 <120> TITLE OF INVENTION: Osteoarthritis tissue-derived nucleic acids, polypeptides,  
 9 vectors, and cells  
 11 <130> FILE REFERENCE: SO-3221 PR  
 13 <140> CURRENT APPLICATION NUMBER: US/09/765,231  
 13 <141> CURRENT FILING DATE: 2001-01-18  
 13 <160> NUMBER OF SEQ ID NOS: 82

# ERRORED SEQUENCES

3483 <210> SEQ ID NO: 82  
 3484 <211> LENGTH: 225  
 3485 <212> TYPE: DNA  
 3486 <213> ORGANISM: Homo sapiens  
 3488 <400> SEQUENCE: 82  
 3490 ggagaatgtg acatagattt gctggcacat gggtttcta tgagcaaacc ccagaattgg 60  
 3492 acacacgtat ctggtgctgc attggaatca tccgaaaaaa ccaaggcttg cattgcatat 120  
 3494 ctatctgctg tctgctgaag gagccctgtc tgtgtgccca aggaagtgc atccttgcca 180  
 3496 agggctgtcc ctggtgcagg agatgaagga gccctgtcta tgtgc 225

E--> 3503

*delete at end of file*

see p. 2 for more errors

09/765,231 2

<210> 6  
 <211> 2263  
 <212> DNA  
 <213> Homo sapiens

<223> unsure at all n locations  
 <400> 6

Besides <223>

→ <220>

<221> These

<222> → mandatory

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

numeric  
 identifiers  
 and responses  
 are needed

whenever

"n" or "Xaa"  
 is shown  
 in a sequence.

FYI

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

<220> is a  
 "header" only -  
 it has no  
 response.

See 1.823  
 Sequence Rules

## VERIFICATION SUMMARY

DATE: 07/05/2001

PATENT APPLICATION: US/09/765,231

TIME: 11:35:22

Input Set : N:\paola\09765231.txt

Output Set: N:\CRF3\07032001\I765231.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:251 M:283 W: Missing Blank Line separator, <400> field identifier  
L:255 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:255 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6  
L:255 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:426 M:283 W: Missing Blank Line separator, <400> field identifier  
L:430 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9  
L:430 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9  
L:430 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9  
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:432 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9  
L:432 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9  
L:432 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9  
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:708 M:283 W: Missing Blank Line separator, <400> field identifier  
L:756 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14  
L:756 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14  
L:756 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14  
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:1139 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1141 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21  
L:1141 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21  
L:1141 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21  
L:1141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:1432 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1458 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:27  
L:1458 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:27  
L:1458 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:27  
L:1458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:1635 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1641 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:30  
L:1641 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:30  
L:1641 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:30  
L:1641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:2386 M:283 W: Missing Blank Line separator, <400> field identifier  
L:2424 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:41  
L:2424 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:41  
L:2424 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:41  
L:2424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:2493 M:283 W: Missing Blank Line separator, <400> field identifier  
L:2495 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:42  
L:2495 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:42  
L:2495 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:42  
L:2495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:3080 M:283 W: Missing Blank Line separator, <400> field identifier  
L:3082 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:61

## VERIFICATION SUMMARY

DATE: 07/05/2001

PATENT APPLICATION: US/09/765,231

TIME: 11:35:22

Input Set : N:\paola\09765231.txt

Output Set: N:\CRF3\07032001\I765231.raw

L:3082 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:61  
L:3082 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:61  
L:3082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61  
L:3084 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:61  
L:3084 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:61  
L:3084 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:61  
L:3084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61  
L:3411 M:283 W: Missing Blank Line separator, <400> field identifier  
L:3415 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:79  
L:3415 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:79  
L:3415 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:79  
L:3415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79  
L:3417 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:79  
L:3417 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:79  
L:3417 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:79  
L:3417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79  
L:3435 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:79  
L:3435 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:79  
L:3435 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:79  
L:3435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79  
L:3446 M:283 W: Missing Blank Line separator, <400> field identifier  
L:3448 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:80  
L:3448 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:80  
L:3448 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:80  
L:3448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80  
L:3450 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:80  
L:3450 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:80  
L:3450 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:80  
L:3450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80  
L:3503 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:225 SEQ:82